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Experimental
CORN HYBRIDS TESTED IN 1953

By R. W. Jugenheimer
L. F. Bauman
D. E. Alexander

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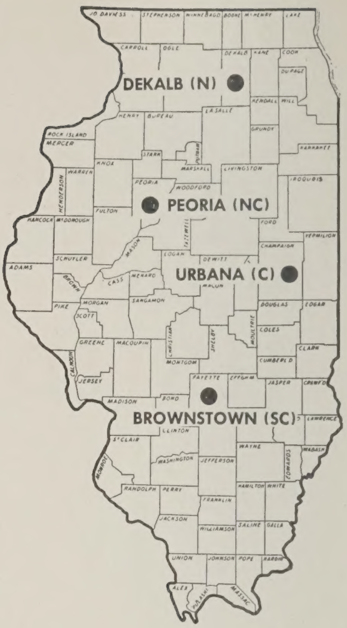

Location of regular experimental-hybrid test fields

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Publications in the Bulletin series report the results of investigations made
or sponsored by the Experiment Station

EXPERIMENTAL CORN HYBRIDS TESTED IN 1953

By R. W. Jugenheimer, L. F. Bauman, and D. E. Alexander[1]

THIS REPORT summarizes the results of tests of experimental corn hybrids conducted in 1953 by this Station. Trials were made at four locations: in DeKalb county in northern Illinois, in Peoria county in north-central Illinois, in Champaign county in central Illinois, and in Fayette county in south-central Illinois. These four locations are representative of the soil, rainfall, and length of growing season in their respective areas.

Hybrids were compared for yield, maturity, resistance to lodging, and other agronomic characters. Only hybrids of similar maturity were tested on the same field. A familiar hybrid whose maturity was considered the standard for the group is named in each table heading.

Since most of the hybrids whose performance is recorded here are not yet in commercial use, the information about them is of most value to producers of hybrid seed. The 1953 performance of hybrids available in commercial quantities to farmers is reported in Bulletin 571 of this Station.

MEASURING PERFORMANCE

All plots in these tests were planted and thinned by hand in fields prepared in the usual way for corn. Six kernels were planted in hills spaced 40 inches apart. Three plants per hill were left in two replications and four plants per hill in two replications at DeKalb, Peoria, and Champaign. Plots were 2 × 5 hills except at Urbana, where they were 2 × 8. All plots were arranged in a lattice-square design.

General information concerning the tests is given in Table 1, including dates of planting and harvesting.

Data from all plots are included in the results. The only correction for imperfect stands was the following adjustment for missing hills:

$$\begin{matrix}\text{Corrected}\\\text{weight}\end{matrix} = \begin{matrix}\text{Field}\\\text{weight}\end{matrix} \times \frac{\begin{pmatrix}\text{Number of hills}\\\text{per plot}\end{pmatrix} - \begin{pmatrix}0.3 \times \text{Number of missing}\\\text{hills per plot}\end{pmatrix}}{\begin{pmatrix}\text{Number of hills}\\\text{per plot}\end{pmatrix} - \begin{pmatrix}\text{Number of missing}\\\text{hills per plot}\end{pmatrix}}$$

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[1] R. W. Jugenheimer, Professor of Plant Genetics; L. F. Bauman, formerly First Assistant in Plant Genetics; and D. E. Alexander, First Assistant in Plant Genetics.

This adjustment adds 0.7 of the average hill yield for each missing hill, and assumes that 0.3 is made up by the increased yield of surrounding hills.

Table 1. — GENERAL INFORMATION: Tests of Illinois Experimental Corn Hybrids, 1953

County[a]	Section of state	Number of replications	Number of hills per plot	Plants per hill	Date of— Planting	Date of— Harvesting
DeKalb . . .	Northern	4	10	3 and 4	May 14	Oct. 20
Peoria	North-Central	4	10	3 and 4	May 21	Oct. 13
Champaign	Central	4	16	3 and 4	May 26	Nov. 5
Fayette . . .	South-Central	4	10	3	May 27	Oct. 15

[a] The fields are located near the following cities and towns: in DeKalb county near DeKalb, in Peoria county near Peoria, in Champaign county near Urbana, and in Fayette county near Brownstown.

Hybrids are listed in the tables in the order of their yield. Acre-yields are reported as shelled grain containing 15.5 percent moisture, the maximum allowable for No. 2 corn. To determine the shelling percentage and moisture percentage, the corn from one replication of each entry at each location was shelled. Percentage of moisture in the shelled grain was obtained with a Steinlite moisture meter. Erect plants at harvest and stand were determined from actual counts on all replications of each test. Ear heights are recorded in inches.

MATERIAL TESTED

One hundred sixty-three different entries were grown at the four locations. The Illinois hybrids were developed by members of the Plant Breeding division of the University of Illinois Agronomy Department. The seed was produced by controlled hand-pollination.

The University does not produce hybrid seed corn in commercial quantities. If a hybrid gives satisfactory performance, the parental lines are released for use by seedsmen. Hybrids that include new inbred lines are produced under the "delayed release" program adopted by most of the states in the corn belt. Delayed release enables the Experiment Station to control the use of the new line during the early years of its commercial utilization. Multiplication of a new line is handled by the Station and the production of single crosses in quantity is handled by the Illinois Seed Producers Association. After a satisfactory probationary period of two to five years, a new line is released to the public.

Table 6 (pages 20 to 23) lists the hybrids whose performance is shown in this report and the tables in which each appears. It also contains the pedigrees of the hybrids tested. In the pedigrees the order of the single crosses and of the lines in the single crosses has no significance; it does not indicate which should be used as seed or pollen parent in the production of a hybrid.

Illinois yellow hybrids are numbered consecutively below 2000 and above 6000. White hybrids are numbered in the 2000 series; these are usually followed by the letter "W." Hybrids that have performed well after wide testing in several corn-belt states have been designated AES (Agricultural Experiment Station) hybrids. Hybrids in the 700 series correspond in maturity to the Illinois 21 group; the 800 series corresponds to the U. S. 13 group.

The letter "A" or "B" following an Illinois hybrid number indicates that the combination of inbred lines making up the hybrid has been rearranged or "permuted." For example, if the original pedigree of an Illinois hybrid was (1 ×2) (3 × 4), the letter "A" following the number means that the hybrid was put together (1 × 3) (2 × 4), the letter "B," (1 × 4) (2 × 3). A difference in reciprocals is not recognized in this method. When a short dash (–) followed by a number occurs as a part of an Illinois hybrid number, it means that a tested related line has been substituted for one of the inbred lines included in the original hybrid.

RESULTS OF THE TESTS

Data obtained from the tests are summarized in Tables 2 to 5. Long-time averages are more reliable indexes of the performance of hybrids than a single year's result. Therefore the parts of the tables summarizing the results of two or more years deserve the most weight when the results are studied.

Relative performance cannot be determined with absolute accuracy by any method of testing. Small differences between entries are seldom of any significance. In fact, small differences are to be expected among plots planted even with the same lot of seed. Variations in growing conditions, such as soil fertility, are only reduced, not completely eliminated, by replicating the same hybrid several times in the same test. Unavoidable variation may be determined by a mathematical procedure known as "analysis of variance." From this procedure a figure is obtained that represents the number of bushels by which two entries must differ in yielding ability before they can be considered significantly different. Note, for example, in Table 2A that unless any two entries differ by at least 4 bushels per acre there is no statistical difference between them in yielding ability. Thus Ill. 1280, Ill. 1289, and Ill. 1277 can be considered higher yielding than Ill. 1375, but not higher than Ill. 21.

Trials at all four fields were on well-fertilized soils. Insect and disease damage was slight at all locations. Early harvesting plus dry weather resulted in practically no lodging except at Urbana. Moisture in grain was abnormally low, running as low as 14 percent.

Test plots near Peoria and Brownstown were harvested by hand. Trials near DeKalb and Urbana were harvested with a mechanical picker. Gleanings left in the field are reported in percentage of the total grain yield (Tables 2E and 4E). Acre-yields in the tables include gleanings. Grams of husks, shanks, and stalks not removed by the mechanical picker per pound of ear corn are reported for the tests in northern and central Illinois (Tables 2E and 4E).

The following double crosses were average or better in yield and standability and average or earlier in maturity, as measured by the percent of moisture in the grain. The hybrids are arranged in order of yield.

Northern Illinois

Six-year average (Table 2A) — Ill. 1280, Ill. 1289, Ill. 1277.
Four-year average (Table 2B) — Ill. 1289, Ill. 1280, Ill. 1290, Ill. 1560A, Ill. 1557, Ill. 1559B.
Three-year average (Table 2C) — Ill. 1280, Ill. 1289, AES 702, Ill. 1557, Ill. 1560A.
Two-year average (Table 2D) — Ill. 1280, Ill. 1277, Ill. 1279, Ill. 1560A, Ill. 1555A, Ill. 1800, Ill. 1579.
1953 results (Table 2E) — Ill. 1277, Ill. 1280, Ill. 1289, Ill. 1866, Ind. 0421, Ill. 1279, Ill. 1862, Ill. 1861, Ill. 1560A.

North-Central Illinois

Six-year average (Table 3A) — Ill. 1511, Ill. 274-1.
Four-year average (Table 3B) — Ill. 1555A, Ill. 1560A, Ill. 1290, Ill. 1277, Ill. 1559B.

Three-year average (Table 3C) — Ill. 274-1.
Two-year average (Table 3D) — Ill. 1819, Ill. 1511, Ill. 1831, Ill. 1575, Ill. 1555A, Ill. 1560A, Ill. 1277.
1953 results (Table 3E) — Nebr. 1626C, Ill. 1873, Ill. 1896A, Ill. 1560A, Ill. 1863.

Central Illinois

Six-year average (Table 4A) — Ill. 1511, Ill. 972A-1, Ill. 274-1.
Four-year average (Table 4B) — Ill. 972A-1, Ill. 1332, Ill. 274-1.
Three-year average (Table 4C) — Ill. 1421, AES 805, Ill. 1764, Ill. 1511, Ill. 972A-1, Ill. 1332, Ill. 1777.
Two-year average (Table 4D) — Ohio 4808, AES 801, Ill. 1332, AES 802, Ill. 274-1, Ill. 1511, Ill. 1764, Ill. 1777, Ill. 21.
1953 results (Table 4E) — Ohio 4808, Ill. 1332, AES 802, Ill. 1890, Ill. 1877, Ill. 1884, Ill. 1880, AES 801, Ill. 1876.

South-Central Illinois

Six-year average (Table 5A) — U. S. 13, Ill. 1349.
Four-year average (Table 5B) — Ill. 1539A, Ill. 1332.
Three-year average (Table 5C) — Ill. 2214W, Ill. 1332, Ill. 1570, Ill. 1656, Ill. 1349, Ill. 1539A.
Two-year average (Table 5D) — U. S. 13, Ill. 1570, Ill. 1656, Ill. 1332, Ill. 1851, AES 805, Ill. 1349, Ill. 1539A.
1953 results (Table 5E) — Ill. 1897, Ill. 1898, Ill. 1570, Ill. 2246, Ill. 1859, Ill. 1511, Ill. 1332, Ill. 1899, Ill. 1656, Ill. 6075, AES 805, Ill. 1851, Ill. 200.

Table 2. — DOUBLE CROSSES OF ILLINOIS 1277 MATURITY
Tested in Northern Illinois, 1948-1953

(Entries in **boldface** were average or better in yield and standability and average or earlier in maturity)

A — Six-year averages, 1948-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1280**	96	22	79	92	97	37
2	**Ill. 1289**	96	22	78	94	96	36
3	**Ill. 1277**	96	23	79	93	98	38
4	Ill. 21	94	24	77	88	98	47
5	Ill. 1375	90	22	79	95	95	35
	Average	94	23	78	92	97	39
	Significant difference	4					

B — Four-year averages, 1950-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
1	**Ill. 1289**	92	24	78	97	98	35
2	**Ill. 1280**	90	24	78	97	98	37
3	**Ill. 1290**	90	24	78	97	95	39
4	Ill. 1277	90	24	78	95	99	38
5	**Ill. 1560A**	89	23	79	100	99	36
6	**Ill. 1557**	89	23	76	99	96	34
7	Ill. 1575	89	26	78	97	100	38
8	Ill. 1558	89	26	76	99	98	34
9	Ill. 1555A	88	20	80	96	98	38
10	**Ill. 1559B**	88	22	78	99	98	32
11	Ill. 1279	88	24	78	96	98	39
12	Ill. 1091A	88	26	77	98	98	39
13	Ill. 101	85	24	77	98	97	36
14	Ill. 1375	84	22	78	97	98	34
15	Ill. 1595	83	23	76	98	98	40
16	Ill. 21	83	27	76	94	98	46
	Average	88	24	78	97	98	37
	Significant difference	4					

C — Three-year averages, 1951-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
1	**Ill. 1280**	100	24	78	98	98	39
2	Ill. 1493	100	25	79	98	99	39
3	Ill. 1558	100	25	77	99	98	36
4	**Ill. 1289**	99	23	78	97	97	35
5	Ill. 1575	99	27	77	97	99	39
6	Ill. 1277	98	24	78	96	98	39
7	**AES 702**	97	23	74	97	99	43
8	Ill. 1555A	96	20	80	96	99	41
9	**Ill. 1557**	96	23	76	99	96	35
10	Ill. 1290	96	24	78	96	97	39
11	Ill. 21	96	26	76	95	97	48
12	**Ill. 1560A**	95	24	78	100	99	37
13	Ill. 1279	95	25	78	98	98	39
14	Ill. 101	95	26	78	98	98	37
15	Ill. 1091A	95	27	77	97	97	40
16	Ohio K24	93	22	80	95	96	37
17	Ill. 1579	93	23	79	99	98	33
18	Ill. 1559B	93	23	79	98	98	34
19	Ill. 1585	93	24	77	96	94	37
20	Nebr. 1389A	90	22	78	98	97	37
21	Ill. 1595	90	24	76	98	97	41
22	Ill. 1375	89	23	78	98	98	33
23	Ill. 1281	89	25	77	97	96	35
	Average	95	24	78	97	98	38
	Significant difference	4					

(Table is continued on next page)

Table 2. — Continued

D — Two-year averages, 1952-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1280**	113	19	80	99	96	38
2	Ill. 1558	113	20	79	100	97	36
3	**Ill. 1277**	112	19	79	99	98	38
4	Ill. 21	112	20	80	96	97	48
5	Ill. 1575	112	21	80	100	98	38
6	I.S.P. 2	112	22	76	100	98	38
7	Ill. 101	110	20	80	98	100	36
8	AES 702	110	22	77	98	98	42
9	**Ill. 1279**	109	18	80	98	99	38
10	Ill. 1493	109	20	76	99	99	37
11	Ill. 1289	109	24	78	98	97	36
12	Ill. 1091A	108	21	78	98	96	40
13	Ill. 1290	107	20	80	99	96	38
14	Ill. 1557	106	20	78	100	95	36
15	**Ill. 1560A**	105	19	79	100	98	36
16	**Ill. 1555A**	103	17	82	98	98	41
17	**Ill. 1800**	103	18	80	100	98	36
18	**Ill. 1579**	103	18	80	99	96	33
19	Ill. 1585	103	18	78	96	93	36
20	Ill. 1559B	103	20	81	99	98	34
21	Ill. 1805	102	18	84	97	97	35
22	Ill. 1801	102	18	82	100	96	36
23	Ohio K24	102	18	80	98	96	36
24	Nebr. 1389A	102	18	80	98	95	36
25	Ind. 0421	100	16	82	99	99	36
26	Ill. 1799	100	17	82	100	100	38
27	Ill. 1802	100	18	81	99	96	38
28	Ill. 1595	100	18	76	100	98	40
29	Ill. 1281	100	20	78	98	96	35
30	AES 610	99	18	80	98	97	30
31	Ill. 1809	98	16	80	98	97	38
32	Ind. 0412	98	16	77	99	98	36
33	Ill. 1807	98	17	80	98	99	38
34	Ill. 1375	98	18	80	99	97	34
35	Ill. 1808	96	17	82	95	98	40
36	Ohio M15	96	17	82	94	97	41
37	Ill. 1811	95	17	80	96	98	38
38	Ill. 1806	94	16	80	98	100	36
39	Ill. 1795	91	17	79	99	98	34
40	Ill. 1796	88	16	80	98	94	38
	Average	103	19	80	98	97	37
	Significant difference	6					

(Table is concluded on next page)

Table 2. — Concluded

E — 1953 results (4 replications)

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Husks[a] and stalks	Gleanings[b]
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*	*gm.*	*perct.*
1	Ill. 1863	120	18	82	99	99	34	14	1.2
2	Ill. 1902	116	18	80	95	99	40	13	1.8
3	Ill. 1575	115	18	82	100	98	36	10	1.8
4	**Ill. 1277**	114	17	82	99	99	36	14	1.1
5	Ill. 1865	113	18	81	99	95	33	16	1.5
6	Ill. 21	112	17	81	95	96	46	12	2.4
7	Ill. 101	112	17	83	97	100	34	14	1.5
8	Ill. 1558	112	18	81	99	99	32	11	1.5
9	Ill. 1493	112	18	80	98	99	36	11	.7
10	**Ill. 1280**	111	17	82	99	97	37	15	1.6
11	Ill. 1091A	111	18	80	96	96	38	11	1.4
12	Ill. 1901	110	15	80	96	99	60	16	4.7
13	**Ill. 1289**	109	16	81	100	96	34	10	1.4
14	Ill. 1585	108	16	83	93	99	34	18	3.6
15	**Ill. 1866**	108	17	82	98	100	34	14	2.0
16	Ill. 1559B	108	18	85	98	99	34	12	1.6
17	Ill. 6074	108	18	82	93	99	42	10	5.9
18	Ill. 1557	108	18	81	99	93	34	18	2.7
19	**Ind. 0421**	107	15	84	98	99	36	14	2.0
20	**Ill. 1279**	107	16	82	98	99	36	12	1.4
21	**Ill. 1862**	107	17	82	99	99	32	14	1.8
22	I.S.P. 2	107	21	78	99	98	38	11	3.7
23	**Ill. 1861**	106	16	84	99	96	38	16	2.0
24	**Ill. 1560A**	106	17	81	100	97	34	14	.8
25	Ind. 0412	104	15	83	98	98	36	9	2.8
26	Ill. 1555A	104	15	84	97	97	39	18	1.9
27	Nebr. 1389A	104	17	83	98	94	34	11	1.4
28	Ill. 1290	104	17	82	99	94	36	13	2.0
29	AES 702	103	19	77	96	98	40	10	4.3
30	Ill. 1375	102	15	83	99	99	32	16	.4
31	Ohio K24	102	16	84	97	95	35	16	3.6
32	Ill. 1864	102	17	85	98	100	32	12	2.9
33	Ill. 1595	102	17	79	99	96	38	13	.8
34	Ill. 1799	100	16	84	100	99	36	15	2.4
35	Ill. 1800	100	16	82	100	98	32	14	1.2
36	Ill. 1579	100	17	82	98	95	32	18	3.2
37	Ill. 1802	100	17	83	98	101	34	13	3.4
38	Ill. 1281	100	17	82	98	92	32	14	2.7
39	Ill. 1807	97	15	83	96	100	34	12	3.2
40	Ill. 1809	97	15	82	98	96	36	18	2.2
41	Ill. 1805	97	17	84	95	99	32	14	5.0
42	Ill. 1801	97	17	83	99	96	34	14	3.7
43	Ill. 1796	96	15	83	98	94	38	13	.8
44	Ill. 1808	96	16	83	93	96	39	17	3.3
45	Ill. 1806	95	15	82	99	99	35	20	.8
46	Ohio M15	95	15	83	91	98	39	19	2.0
47	AES 610	95	17	83	97	95	29	15	3.4
48	Ill. 1811	94	16	82	94	98	36	14	3.0
49	Ill. 1795	93	16	84	99	97	33	13	.5
	Average	105	17	82	98	97	36	14	2.3
	Significant difference	10							

[a] Grams of husks and stalks not removed by mechanical picker per pound of ear corn.
[b] Percentage of total grain yield left in field by mechanical harvester.

Table 3.—DOUBLE CROSSES OF ILLINOIS 21 MATURITY
Tested in North-Central Illinois, 1948-1953

(Entries in **boldface** were average or better in yield and standability and average or earlier in maturity)

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
	A — Six-year averages, 1948-1953						
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1511**	110	19	82	92	88	..
2	Ill. 972A-1	108	20	81	89	91	..
3	**Ill. 274-1**	106	19	81	94	97	..
4	Ill. 21	104	20	81	88	94	..
5	U.S. 13	104	20	80	85	95	..
	Average	106	20	81	90	93	..
	Significant difference	5					
	B — Four-year averages, 1950-1953						
1	**Ill. 1555A**	90	17	84	95	97	37
2	**Ill. 1560A**	90	18	82	99	98	36
3	Ill. 1280	89	19	83	94	97	38
4	**Ill. 1290**	89	19	82	96	95	39
5	**Ill. 1277**	89	20	82	95	98	39
6	Ill. 1575	89	21	80	97	99	40
7	**Ill. 1559B**	88	19	81	96	96	33
8	Ill. 1611	87	19	80	98	96	42
9	Ill. 1375	87	21	83	96	96	35
10	Ill. 21	84	23	80	92	95	46
11	U.S. 13	83	23	78	85	95	48
	Average	88	20	81	95	97	39
	Significant difference	6					
	C — Three-year averages, 1951-1953						
1	Ill. 1511	103	19	83	94	86	49
2	Ill. 972A-1	103	20	82	93	94	45
3	Ill. 1617	103	20	79	93	94	45
4	AES 805	102	21	79	98	92	44
5	Ill. 1332	100	19	82	93	96	47
6	Ill. 1575	100	20	81	96	99	41
7	Ill. 1570	100	21	79	91	99	49
8	**Ill. 274-1**	99	19	81	96	96	47
9	Ill. 1555A	97	16	85	94	98	39
10	Ill. 1280	97	18	84	94	96	40
11	Ill. 1277	97	20	83	96	97	40
12	Ill. 21	97	20	82	93	93	48
13	U.S. 13	97	20	80	90	93	51
14	Ill. 1760	97	21	78	96	94	45
15	Ill. 1560A	96	18	82	98	97	38
16	Ill. 1611	96	19	82	98	95	43
17	Ill. 1290	95	18	83	96	93	39
18	AES 702	95	20	78	92	97	43
19	Ill. 1559B	94	18	82	95	96	35
20	Ill. 1375	93	17	85	97	94	35
21	Iowa 4297	92	18	83	96	89	40
	Average	98	19	82	95	95	43
	Significant difference	7					

(Table is continued on next page)

Table 3. — Continued

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
	D — Two-year averages, 1952-1953						
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1819**	106	16	82	94	97	46
2	Nebr. 1626C	104	18	83	92	92	43
3	Nebr. 1617B	104	22	80	90	95	46
4	**Ill. 1511**	103	18	84	94	80	51
5	**Ill. 1831**	102	18	81	96	94	42
6	Ill. 1814	102	20	82	98	94	41
7	Ill. 972A-1	102	20	82	92	93	51
8	Ill. 1332	101	18	82	92	94	50
9	**Ill. 1575**	101	18	81	95	98	42
10	Ill. 274-1	100	19	82	96	96	49
11	Ill. 1617	100	19	79	92	88	46
12	Ill. 1570	100	19	79	90	98	52
13	AES 805	100	20	80	97	89	46
14	Ill. 1826	99	20	82	94	97	40
15	**Ill. 1555A**	98	15	86	95	96	42
16	**Ill. 1560A**	98	16	83	98	96	40
17	**Ill. 1277**	98	18	83	95	97	42
18	U.S. 13	98	20	81	86	92	53
19	Ill. 1813	98	22	80	98	92	47
20	Ill. 1760	97	20	78	95	92	46
21	Ill. 1559B	96	17	82	94	94	36
22	Ill. 21	96	18	82	92	91	50
23	Ill. 1822	96	20	82	99	94	40
24	Ill. 1280	95	17	83	92	95	42
25	Ill. 1821	94	18	83	94	94	42
26	Ill. 1611	94	18	82	98	94	46
27	Ill. 1827	94	19	82	98	96	39
28	Ill. 1375	93	16	86	96	92	38
29	Ill. 1290	92	17	84	94	92	41
30	Ohio 4915	92	18	84	97	94	36
31	AES 702	92	19	78	90	96	45
32	Iowa 4297	91	16	83	95	86	42
33	Ind. 1405	91	18	80	99	89	38
	Average	98	18	82	94	93	44
	Significant difference	9					

(Table is concluded on next page)

Table 3. — Concluded

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
	E — 1953 results (4 replications)						
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Nebr. 1626C**	92	14	86	92	89	38
2	Ill. 1831	92	16	83	96	88	37
3	Nebr. 1617B	92	19	79	83	91	43
4	Ill. 1819	90	13	84	90	94	39
5	**Ill. 1873**	87	15	84	95	87	35
6	Ill. 1813	87	19	81	95	93	42
7	**Ill. 1896A**	86	15	81	92	99	41
8	Ill. 1868	86	16	82	94	90	39
9	Ill. 1875	86	17	80	92	83	47
10	**Ill. 1560A**	85	14	86	97	92	34
11	Ill. 1814	85	16	84	98	94	36
12	Ill. 1570	85	16	81	85	96	48
13	AES 805	85	18	80	94	78	43
14	Ill. 1277	84	15	86	90	96	36
15	Ill. 1575	84	15	83	90	96	36
16	Ill. 2247	84	16	82	83	91	43
17	Ill. 1826	84	17	83	92	96	35
18	**Ill. 1863**	83	14	85	96	91	34
19	Ill. 274-1	83	16	82	96	93	42
20	Ill. 1555A	82	13	85	90	93	38
21	Ill. 1332	82	16	84	92	89	47
22	Ill. 972A-1	82	17	82	86	86	46
23	Ill. 1760	82	17	79	91	83	42
24	Ill. 1864	81	13	82	98	89	36
25	Ohio 4915	81	14	86	98	89	32
26	Ill. 1870	81	14	84	96	86	35
27	Ill. 1559B	81	15	84	94	89	32
28	Ill. 1617	81	16	80	91	91	44
29	Ill. 1280	80	14	85	87	91	36
30	Ill. 21	80	14	83	91	84	44
31	AES 702	80	16	82	83	93	40
32	Ill. 1867	80	17	82	98	82	34
33	Ill. 1800	79	14	86	92	94	32
34	Ill. 1869	79	15	80	99	88	45
35	U.S. 13	79	16	84	77	84	50
36	Ill. 1375	78	14	87	92	83	32
37	Ill. 1821	78	15	85	95	87	37
38	Ill. 1611	78	16	83	98	89	41
39	Ill. 1511	78	16	85	93	59	44
40	Ill. 1872	78	16	82	90	91	38
41	Ill. 1874	77	14	84	97	95	31
42	Ill. 1827	77	16	84	96	91	34
43	Ill. 6033	77	16	80	77	93	49
44	Ill. 1822	77	18	82	98	89	34
45	Ill. 1290	76	14	84	96	84	36
46	Ind. 1405	76	15	83	98	89	33
47	Iowa 4297	75	14	85	97	76	39
48	Ill. 1871	75	17	81	95	81	35
49	Ill. 6074	67	16	83	93	69	41
	Average	82	15	83	92	88	39
	Significant difference	10					

Table 4. — DOUBLE CROSSES OF U. S. 13 MATURITY
Tested in Central Illinois, 1948-1953

(Entries in **boldface** were average or better in yield and standability and average or earlier in maturity)

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
	A — Six-year averages, 1948-1953						
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1511**	105	18	82	87	96	..
2	**Ill. 972A-1**	103	18	81	85	94	..
3	**Ill. 274-1**	101	18	82	86	98	..
4	U.S. 13	100	18	80	77	98	..
5	Ill. 1337	99	18	82	79	97	..
6	Ill. 21	99	18	81	79	97	..
	Average	101	18	81	82	97	..
	Significant difference	5					
	B — Four-year averages, 1950-1953						
1	**Ill. 1511**	98	18	82	86	96	49
2	**Ill. 972A-1**	96	17	81	84	97	49
3	Ill. 1633	96	17	80	78	99	50
4	**Ill. 1332**	95	17	81	89	98	48
5	**Ill. 274-1**	94	16	82	85	98	47
6	Ill. 21	94	17	82	80	97	48
7	Ill. 1570	94	18	80	76	97	49
8	U.S. 13	93	18	80	76	98	54
9	Ill. 1337	92	18	81	78	98	48
10	Ill. 1656	88	18	80	88	98	48
	Average	94	17	81	82	98	49
	Significant difference	5					
	C — Three-year averages, 1951-1953						
1	**Ill. 1421**	97	17	83	84	99	46
2	Ill. 1759	96	18	80	80	98	48
3	**AES 805**	95	17	80	87	99	46
4	**Ill. 1764**	95	17	80	80	100	49
5	**Ill. 1511**	94	17	82	85	99	49
6	**Ill. 972A-1**	93	16	81	83	99	49
7	**Ill. 1332**	92	15	81	88	99	48
8	Ill. 1788	92	18	79	77	100	50
9	**Ill. 1777**	91	17	80	80	98	48
10	Mo. 860	91	19	79	78	97	54
11	Ill. 274-1	89	16	82	81	100	48
12	Ill. 1633	89	17	81	78	99	49
13	U.S. 13	89	17	80	74	99	54
14	Ill. 1767	88	18	81	74	100	47
15	Ill. 1337	87	17	81	76	97	48
16	AES 702	87	17	80	87	99	43
17	Ill. 1570	87	17	80	74	99	49
18	Ill. 1766	85	17	80	76	99	52
19	Ill. 1656	84	17	80	83	100	47
	Average	91	17	81	80	99	49
	Significant difference	5					

(Table is continued on next page)

Table 4. — Continued

D — Two-year averages, 1952-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	Ill. 1421	98	16	83	84	99	46
2	**Ohio 4808**	94	16	81	93	98	42
3	**AES 801**	94	16	80	94	96	42
4	Ill. 1759	94	16	78	83	98	48
5	**Ill. 1332**	92	14	81	92	98	48
6	**AES 802**	92	15	81	86	92	45
7	Ill. 972A-1	92	16	81	85	98	50
8	Ill. 1633	92	16	81	79	98	51
9	**Ill. 274-1**	91	14	82	87	99	48
10	**Ill. 1511**	91	16	82	88	99	50
11	**Ill. 1764**	91	16	80	86	100	49
12	**Ill. 1777**	90	16	80	88	98	48
13	Ill. 1788	90	17	78	77	99	53
14	**Ill. 21**	89	15	82	86	98	49
15	Ill. 1570	89	16	80	84	99	50
16	AES 805	89	17	80	90	98	46
17	Mo. 4041W	89	18	75	74	98	54
18	AES 803	88	16	80	89	96	42
19	Ill. 1767	88	16	80	86	99	48
20	Ill. 1836	87	16	82	88	100	52
21	Nebr. 1363B	87	16	77	78	98	52
22	AES 702	86	15	80	88	99	44
23	U.S. 13	86	16	80	82	98	54
24	Ill. 1789	86	17	79	91	98	49
25	Mo. 860	86	17	78	84	96	56
26	Ill. 1337	84	15	82	82	98	50
27	Ill. 1843	84	16	80	90	98	51
28	Ill. 1837	84	17	80	88	98	50
29	Nebr. 1602B	82	16	81	90	99	44
30	Ill. 1766	80	16	80	82	98	52
31	Ill. 1656	80	16	79	89	99	48
	Average	89	16	80	86	98	49
	Significant difference	6					

(Table is concluded on next page)

Table 4. — Concluded

E — 1953 results (4 replications)

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Husks[a] and stalks	Gleanings[b]
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*	*gm.*	*perct.*
1	Ill. 1421	90	16	84	70	98	46	8	4.2
2	**Ohio 4808**	87	14	82	87	98	40	13	2.2
3	Ill. 1896	87	14	82	73	98	46	4	6.8
4	**Ill. 1332**	84	13	82	86	99	51	7	3.7
5	**AES 802**	84	15	82	78	97	46	5	4.9
6	Ill. 1570	82	15	81	69	98	54	7	11.2
7	**Ill. 1890**	82	15	80	85	99	46	6	6.2
8	Ill. 1813	82	16	82	88	93	43	7	0
9	Ill. 1777	82	16	81	79	99	50	12	4.7
10	**Ill. 1877**	81	13	81	92	97	40	8	3.3
11	Ill. 1511	81	16	82	83	98	52	7	5.3
12	**Ill. 1884**	80	14	80	88	96	48	7	3.6
13	Ill. 972A-1	80	15	82	73	98	52	9	4.7
14	Ill. 1767	79	15	82	74	99	50	8	6.9
15	AES 805	79	16	81	84	97	45	6	7.2
16	Ill. 1759	78	14	79	69	99	51	10	9.6
17	**Ill. 1880**	77	14	82	84	92	46	8	5.4
18	Ill. 1764	77	15	81	77	99	51	7	5.7
19	**AES 801**	77	15	80	88	93	44	5	2.0
20	Mo. 4041W	77	15	78	61	97	57	14	7.6
21	Ill. 1788	77	16	80	58	99	54	10	7.4
22	Ill. 1889	77	17	80	92	99	51	8	5.8
23	Ill. 21	76	15	83	75	96	52	7	7.3
24	Ill. 1633	76	15	82	67	96	54	12	4.4
25	**Ill. 1876**	75	14	81	83	99	50	6	4.4
26	U.S. 13	75	15	81	73	98	55	6	10.0
27	Ill. 1885	74	13	80	91	93	44	6	3.7
28	Ill. 274-1	74	15	83	75	99	51	8	5.0
29	AES 803	74	15	82	82	94	41	7	4.4
30	Ill. 1789	74	16	81	83	98	51	6	2.0
31	Ill. 1878	73	12	78	88	95	42	6	2.5
32	AES 702	73	14	81	81	98	44	7	6.8
33	Ill. 1656	73	16	81	85	99	50	5	8.6
34	Ill. 1836	72	16	83	78	101	55	5	6.3
35	Mo. 860	72	16	79	69	94	57	8	12.3
36	Ill. 1879	71	14	76	93	96	43	9	2.4
37	Ill. 1881	71	15	80	76	98	45	10	5.3
38	Nebr. 1363B	71	15	79	62	96	53	10	7.2
39	Ill. 1891	71	16	78	90	91	50	4	6.9
40	Ill. 1882	70	13	80	89	96	50	6	4.7
41	Ill. 1337	70	14	84	71	96	52	5	9.9
42	Ill. 1843	69	15	80	80	96	54	5	6.8
43	Ill. 1837	69	16	80	79	96	49	8	5.2
44	Ill. 1886	68	15	80	87	97	46	3	6.0
45	Ill. 1869	67	17	79	78	95	48	7	8.0
46	Nebr. 1602B	66	15	81	79	98	47	6	3.8
47	Ill. 6075	65	13	82	64	92	43	10	7.7
48	Ill. 1766	62	15	82	69	96	56	6	9.9
49	Synthetic	58	16	81	58	88	60	14	1.2
	Average	75	15	81	78	97	49	8	5.7
	Significant difference	9							

[a] Grams of husks and stalks left by mechanical picker per pound of ear corn.
[b] Percentage of total grain yield left in field by mechanical harvester.

Table 5. — DOUBLE CROSSES OF ILLINOIS 448 MATURITY
Tested in South-Central Illinois, 1948-1953

(Entries in **boldface** were average or better in yield and standability and average or earlier in maturity)

A — Six-year averages, 1948-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**U.S. 13**	90	17	82	80	100	45
2	**Ill. 1349**	89	20	82	82	97	50
3	Ill. 1521B	88	24	77	84	96	52
4	Ill. 1539A	87	22	79	82	93	51
5	Ill. 1540	86	22	78	87	95	52
6	Ill. 1445A	84	21	78	74	97	54
7	Ill. 1459	84	23	78	76	93	54
8	Ill. 200	83	18	80	75	96	50
	Average	86	21	79	80	96	51
	Significant difference	4					

B — Four-year averages, 1950-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
1	Ill. 1657	88	22	80	84	99	50
2	Ill. 2214W	86	21	80	88	98	49
3	**Ill. 1539A**	84	20	79	90	99	49
4	U.S. 13	83	17	82	80	99	47
5	Ill. 1349	83	19	82	83	98	49
6	Ill. 1673	83	21	78	84	97	48
7	Ill. 2235W	83	22	80	92	99	48
8	**Ill. 1332**	82	17	82	91	97	43
9	Ill. 1521B	82	22	77	90	99	49
10	Ill. 1570	80	18	80	88	99	42
11	Ill. 1540	79	21	76	92	99	50
12	Ill. 1459	79	22	76	80	98	52
13	Ill. 200	78	18	80	80	99	48
14	Ill. 1721	77	21	76	91	97	49
15	Mo. 804	76	20	77	83	91	53
16	Ill. 2159AW	76	20	75	94	97	50
	Average	81	20	79	87	98	48
	Significant difference	4					

C — Three-year averages, 1951-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
1	Mo. 862	80	23	76	86	100	49
2	**Ill. 2214W**	79	19	80	93	99	48
3	Ill. 1657	79	21	80	86	99	49
4	**Ill. 1332**	77	16	83	94	99	42
5	U.S. 13	77	16	83	84	99	45
6	**Ill. 1570**	77	16	81	91	100	41
7	**Ill. 1656**	76	17	83	91	99	41
8	**Ill. 1349**	76	18	82	90	99	48
9	**Ill. 1539A**	76	19	79	91	100	49
10	Ill. 1771	75	20	77	96	100	48
11	Ill. 2235W	75	22	79	93	99	48
12	Ill. 1521B	74	22	77	93	99	48
13	Ill. 1788	73	17	79	86	99	44
14	Ill. 1673	72	21	76	85	97	49
15	Ill. 1445A	71	19	76	81	99	53
16	Ill. 200	69	18	79	83	99	46
17	Ill. 1721	69	21	76	92	98	47
18	Mo. 804	68	19	76	86	98	53
19	Ill. 1540	68	20	75	96	99	49
20	Ill. 1459	68	21	75	88	98	51
21	Ill. 2159AW	67	19	73	95	98	50
	Average	74	19	78	90	99	48
	Significant difference	5					

(Table is continued on next page)

Table 5. — Continued

D — Two-year averages, 1952-1953

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**U.S. 13**	70	14	84	92	99	48
2	**Ill. 1570**	69	15	80	94	100	44
3	Ill. 1859	69	16	80	90	100	48
4	Ill. 1511	68	14	84	86	97	46
5	**Ill. 1656**	68	16	83	94	100	45
6	**Ill. 1332**	66	16	82	92	99	44
7	**Ill. 1851**	66	18	78	94	100	51
8	Ill. 1856	66	20	78	86	100	49
9	Ill. 1857	66	20	76	91	99	50
10	Mo. 862	64	22	75	87	99	50
11	**AES 805**	63	16	80	96	100	44
12	**Ill. 1349**	63	17	82	92	99	50
13	Ill. 1788	62	16	78	86	98	47
14	Ill. 1849	62	20	72	94	99	46
15	Ill. 1657	61	21	78	85	98	48
16	Ill. 1852	60	18	74	90	100	49
17	**Ill. 1539A**	60	19	78	95	100	50
18	Ill. 2235W	60	22	78	94	99	50
19	Ill. 1521B	60	22	75	92	99	48
20	Ill. 1771	59	20	74	96	99	48
21	Ill. 1850	59	20	73	94	98	47
22	Ill. 200	58	16	77	85	99	50
23	Ill. 2214W	57	19	78	94	99	48
24	Ill. 1855	56	18	80	88	100	50
25	Mo. 876	56	18	78	92	99	51
26	C.B. 9901	56	19	78	96	99	48
27	Ill. 1445A	56	19	74	84	99	54
28	Ill. 1540B	56	20	75	96	100	48
29	Ill. 1721	56	20	74	95	99	49
30	Ill. 1673	56	20	72	84	96	50
31	Ill. 1848	55	20	72	96	98	52
32	Ill. 1540	54	20	72	96	100	50
33	Mo. 804	52	18	74	90	98	54
34	Ill. 1459	52	20	74	95	100	52
35	Ill. 1846	50	18	75	94	100	48
36	Ill. 2159AW	48	20	69	96	98	51
	Average	60	19	77	92	99	49
	Significant difference	6					

(Table is concluded on next page)

Table 5. — Concluded

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height
	E — 1953 results (4 replications)						
		bu.	*perct.*	*perct.*	*perct.*	*perct.*	*in.*
1	**Ill. 1897**	60	13	82	98	100	49
2	**Ill. 1898**	57	11	81	99	100	52
3	**Ill. 1570**	55	13	79	96	99	48
4	Ill. 1896	54	13	86	91	98	47
5	**Ill. 2246**	54	13	81	99	100	48
6	Ill. 6076	53	13	84	85	100	48
7	**Ill. 1859**	53	14	80	97	99	51
8	U.S. 13	52	13	83	93	100	52
9	**Ill. 1511**	52	14	85	95	94	48
10	**Ill. 1332**	51	16	81	97	98	46
11	**Ill. 1899**	50	13	80	97	98	50
12	**Ill. 1656**	49	16	80	98	100	50
13	Ill. 1788	48	16	77	91	96	51
14	**Ill. 6075**	47	13	83	95	99	45
15	**AES 805**	46	13	80	98	100	46
16	**Ill. 1851**	44	16	79	98	100	54
17	Ill. 1857	44	18	77	92	98	52
18	Ill. 1893	42	18	78	99	96	48
19	Ill. 6102	41	16	71	92	99	48
20	Ill. 1856	41	19	76	92	100	50
21	**Ill. 200**	40	17	73	96	98	52
22	Ill. 1349	40	17	79	91	100	52
23	Mo. 862	39	20	73	90	100	51
24	Ill. 1852	37	18	71	94	100	52
25	Ill. 6079	36	16	79	77	96	49
26	Ill. 1849	36	20	68	99	98	49
27	Ill. 1539A	35	17	76	94	100	52
28	Ill. 1521B	35	21	71	95	98	51
29	Ill. 1771	34	21	68	98	99	51
30	Ill. 1657	33	20	75	91	98	50
31	Ill. 2214W	32	17	76	98	100	50
32	Ill. 2235W	32	21	76	100	98	51
33	Ill. 1895	31	16	73	98	100	52
34	Ill. 1445A	30	18	71	87	98	58
35	Ill. 1721	30	20	72	96	98	52
36	Ill. 1900	29	18	65	100	96	48
37	Ill. 1673	29	19	67	94	98	52
38	Ill. 1850	29	20	70	97	96	50
39	Ill. 1855	28	16	80	92	100	53
40	Mo. 876	28	17	76	98	100	53
41	Ill. 1894	27	25	64	98	100	48
42	Ill. 1540B	25	20	72	99	100	50
43	Ill. 1459	25	21	70	93	99	54
44	Mo. 804	24	18	71	95	97	58
45	Ill. 1540	24	19	66	97	99	52
46	Ill. 1848	24	19	68	94	99	55
47	C.B. 9901	23	19	76	97	98	50
48	Ill. 1846	20	18	70	98	99	50
49	Ill. 2159AW	18	20	63	97	99	55
	Average	38	17	75	95	99	51
	Significant difference	8					

Table 6. — HYBRID NUMBERS, PEDIGREES, AND INDEX TO TABLES

Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids		
21	(Hy2 × 187-2) (WF9 × 38-11)	2ABCDE, 3ABCDE, 4ABDE
101	(M14 × WF9) (187-2 × W26)	2BCDE
200	(WF9 × 38-11) (L317 × K4)	5ABCDE
274-1	(Hy2 × WF9) (Oh7 × 187-2)	3ACDE, 4ABCDE
972A-1	(Hy2 × L317) (WF9 × Oh7)	3ACDE, 4ABCDE
1091A	(Hy2 × 187-2)(M14 × WF9)	2BCDE
1277	(M14 × WF9) (I.205 × 187-2)	2ABCDE, 3BCDE
1279	(M14 × WF9) (A375 × 187-2)	2BCDE
1280	(M14 × WF9) (Os420 × 187-2)	2ABCDE, 3BCDE
1281	(M14 × WF9) (A374 × A375)	2CDE
1289	(M14 × W22) (WF9 × I.205)	2ABCDE
1290	(M14 × 187-2) (WF9 × I.205)	2BCDE, 3BCDE
1332	(Hy2 × Oh7) (WF9 × 38-11)	3CDE, 4BCDE, 5BCDE
1337	(Hy2 × R61) (WF9 × 38-11)	4ABCDE
1349	(38-11 × Mo940) (K155 × K201)	5ABCDE
1375	(M14 × WF9) (N6 × Oh51A)	2ABCDE, 3BCDE
1421	(Hy2 × WF9) (P8 × Oh7)	4CDE
1445A	(38-11 × K4) (CI.7 × CI.21E)	5ACDE
1459	(38-11 × K4) (K201 × CI.21E)	5ABCDE
1493	(WF9 × I.205) (Oh28 × W22)	2CDE
1511	(Hy2 × WF9) (38-11 × L304A)	3ACDE, 4ABCDE, 5DE
1521B	(38-11 × CI.21E) (K201 × T8)	5ABCDE
1539A	(38-11 × CI.7) (K201 × CI.21E)	5ABCDE
1540	(38-11 × CI.21E) (K155 × K201)	5ABCDE
1540B	(38-11 × K155) (K201 × CI.21E)	5DE
1555A	(WF9 × Oh51A) (I.224 × Oh28)	2BCDE, 3BCDE
1557	(M14 × Oh28) (I.205 × Oh51A)	2BCDE
1558	(M14 × WF9) (I.205 × Oh28)	2BCDE
1559B	(M14 × Oh28) (WF9 × Oh51A)	2BCDE, 3BCDE
1560A	(WF9 × Oh51A) (I.205 × Oh28)	2BCDE, 3BCDE
1570	(Hy2 × Oh41) (WF9 × 38-11)	3CDE, 4BCDE, 5BCDE
1575	(M14 × WF9) (L12 × Oh28)	2BCDE, 3BCDE
1579	(M14 × Oh43) (A73 × Oh5)	2CDE
1585	(M14 × L289) (Oh5 × Oh43)	2CDE
1595	(WF9 × I.205) (187-2 × W22)	2BCDE
1611	(Hy2 × WF9) (I.205 × W22)	3BCDE
1617	(WF9 × B10) (Oh7 × Oh41)	3CDE
1633	(Hy2 × B10) (Oh7 × 187-2)	4BCDE
1656	(C103 × Hy2) (WF9 × 38-11)	4BCDE, 5CDE
1657	(K4 × Oh7) (K201 × CI.21E)	5BCDE
1673	(K4 × K155) (Oh7 × Ok12)	5BCDE
1721	(38-11 × K155) (K201 × T8)	5BCDE
1759	(WF9 × 38-11) (Oh4C × Oh45)	4CDE
1760	(WF9 × 38-11) (Oh29 × Oh45)	3CDE

(Table is continued on next page)

Table 6. — Continued

Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids (continued)		
1764	(Hy2 × WF9) (38-11 × J47)	4CDE
1766	(Hy2 × J47) (WF9 × 38-11)	4CDE
1767	(Hy2 × Oh45) (WF9 × 38-11)	4CDE
1771	(Oh7B × CI.7) (T8 × CI.21E)	5CDE
1777	(Hy2 × WF9) (R114 × R116)	4CDE
1788	(WF9 × 38-11) (Oh41 × CI.21E)	4CDE, 5CDE
1789	(C103 × Oh7) (WF9 × 38-11)	4DE
1795	(M14 × WF9) (B8 × A73)	2DE
1796	(M14 × WF9) (B8 × A295)	2DE
1799	(M14 × WF9) (B8 × Oh51A)	2DE
1800	(M14 × WF9) (A73 × A295)	2DE, 3E
1801	(M14 × WF9) (A73 × Oh51A)	2DE
1802	(M14 × WF9) (A295 × Oh51A)	2DE
1805	(M14 × W70) (A73 × Oh51A)	2DE
1806	(M14 × A295) (A277 × Oh51A)	2DE
1807	(M14 × W70) (A295 × Oh51A)	2DE
1808	(B8 × A295) (A277 × W70)	2DE
1809	(A73 × A295) (A277 × Oh51A)	2DE
1811	(A277 × Oh51A) (A295 × W70)	2DE
1813	(C103 × Oh45) (Hy2 × WF9)	3DE, 4E
1814	(Hy2 × WF9) (M14 × Oh45)	3DE
1819	(R2 × WF9) (R61 × Oh43)	3DE
1821	(M14 × WF9) (K237 × 187-2)	3DE
1822	(M14 × WF9) (Oh5 × Oh45)	3DE
1826	(WF9 × B35) (K237 × Oh45)	3DE
1827	(WF9 × B35) (Oh5 × Oh45)	3DE
1831	(WF9 × W146) (K237 × Oh45)	3DE
1836	(Hy2 × WF9) (R64 × 38-11)	4DE
1837	(Hy2 × WF9) (R64 × Oh29)	4DE
1843	(Hy2 × WF9) (38-11 × Oh29)	4DE
1846	(C103 × CI.21E) (H10 × 38-11)	5DE
1848	(C103 × CI.21E) (38-11 × K155)	5DE
1849	(C103 × 38-11) (K201 × CI.21E)	5DE
1850	(C103 × CI.21E) (38-11 × K201)	5DE
1851	(C103 × 38-11) (Oh7 × CI.21E)	5DE
1852	(C103 × CI.21E) (38-11 × Oh7)	5DE
1855	(38-11 × K155) (Oh7 × CI.21E)	5DE
1856	(38-11 × Oh7) (K201 × CI.21E)	5DE
1857	(38-11 × Oh41) (K201 × CI.21E)	5DE
1859	(38-11 × Oh7) (Oh41 × CI.21E)	5DE
1861	(M14 × WF9) (I.224 × Oh28)	2E
1862	(M14 × WF9) (Oh43 × Oh51A)	2E
1863	(M14 × WF9) (I.205 × Oh43)	2E, 3E
1864	(M14 × WF9) (Oh43 × W22)	2E, 3E
1865	(M14 × WF9) (Oh5 × Oh43)	2E
1866	(M14 × WF9) (Oh26A × Oh45)	2E
1867	(C103 × M14) (WF9 × Os420)	3E

(Table is continued on next page)

Table 6. — Continued

Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids (concluded)		
1868	(C103 × Oh43) (Hy2 × WF9)	3E
1869	(C103 × Oh29) (Hy2 × WF9)	3E, 4E
1870	(C103 × M14) (WF9 × Oh26A)	3E
1871	(C103 × M14) (WF9 × I.205)	3E
1872	(C103 × M14) (R75 × R78)	3E
1873	(C103 × M14) (R75 × Oh43)	3E
1874	(M14 × WF9) (R75 × Oh43)	3E
1875	(C103 × 38-11) (Hy2 × WF9)	3E
1876	(R97 × R98) (WF9 × 38-11)	4E
1877	(R99 × R100) (WF9 × 38-11)	4E
1878	(R101 × R102) (WF9 × 38-11)	4E
1879	(R71A × R74) (WF9 × 38-11)	4E
1880	(R103 × R104) (WF9 × 38-11)	4E
1881	(R107 × R108) (WF9 × 38-11)	4E
1882	(C103 × R97) (WF9 × 38-11)	4E
1884	(C103 × R100) (WF9 × 38-11)	4E
1885	(C103 × R101) (WF9 × 38-11)	4E
1886	(C103 × R102) (WF9 × 38-11)	4E
1889	(C103 × Oh45) (38-11 × Oh29)	4E
1890	(C103 × Oh45) (R75 × 38-11)	4E
1891	(C103 × Oh29) (WF9 × 38-11)	4E
1893	(C103 × 38-11) (Oh7B × Oh29)	5E
1894	(C103 × CI.21E) (Oh7B × Oh29)	5E
1895	(38-11 × CI.21E) (Oh7B × Oh29)	5E
1896	(R138 × R139) (R140 × R141)	4E, 5E
1896A	(R139 × R141) (R138 × R140)	3E
1897	(R138 × R141) (R139 × R143)	5E
1898	R89 × (R75 × 38-11)	5E
1899	R130 × (WF9 × 38-11)	5E
1900	R105 × (WF9 × 38-11)	5E
1901	R84 × (R75 × 38-11)	2E
1902	(R138 × R142) (R139 × R141)	2E
2159AW	(H21 × Ky27) (K64 × CI.61)	5BCDE
2214W	(R30 × Ky27) (H21 × K64)	5BCDE
2235W	(H21 × K64) (33-16 × Mo2RF)	5BCDE
2246	(R144 × R145) (R148 × R149)	5E
2247	(R144 × R145) (R146 × R148)	3E
6033	(R75 × R84) (R76 × R118)	3E
6074	(R75 × R87) (R78 × R83)	2E, 3E
6075	(R75 × R83) (R78 × R87)	4E, 5E
6076	(R76 × R78) (R87 × R117)	5E
6079	(R78 × R84) (R87 × R119)	5E
6102	(R75 × R85) (R84 × R87)	5E
Miscellaneous hybrids		
AES 610	(M14 × A73) (Oh43 × Oh51A)	2DE
AES 702 (Ill. 1790)	(C103 × M14) (Hy2 × WF9)	2CDE, 3CDE, 4CDE
AES 801	(WF9 × B7) (B10 × B14)	4DE

(Table is concluded on next page)

Table 6. — Concluded

Hybrid	Pedigree	Performance given in Table No.
Miscellaneous hybrids (concluded)		
AES 802	(Hy × WF9) (38-11 × N6)	4DE
AES 803	(WF9 × 187-2) (N6 × K148)	4DE
AES 805 (Ill. 1770)	(C103 × Oh45) (WF9 × 38-11)	3CDE, 4CDE, 5DE
C.B. 9901 (Ill. 1772)	(Oh7B × Oh29) (T8 × CI.21E)	5DE
Ind. 0412	(WF9 × W22) (Ind. 54-14 × B9)	2DE
Ind. 0421	(M14 × WF9) (B9 × W22)	2DE
Ind. 1405	(M14-B × M14-6) (WF-12 × WF-15)	3DE
Iowa 4297	(M14 × 187-2) (WF9 × I.205)	3CDE
I.S.P. 2	(C103 × Oh45) (M14 × WF9)	2DE
Mo. 804	(CI.7 × K4) (38-11 × CI.21E)	5BCDE
Mo. 860	(WF9(Y)KR × 38-11) (Hy × L317)	4CDE
Mo. 862	(K201 × T202) (CI.21E × Mo567)	5CDE
Mo. 876	(38-11 × K201) (B18 × Oh29)	5DE
Mo. 4041W	(WhHy × K55) (Wh38-11 × 33-16)	4DE
Nebr. 1363B	(WF9 × 38-11) (B10 × N5)	4DE
Nebr. 1389A	(M14 × WF9) (B8 × N6)	2CDE
Nebr. 1602B	(WF9 × N6) (H10 × 38-11)	4DE
Nebr. 1617B	(Hy × WF9) (N6 × N15)	3DE
Nebr. 1626C	(Hy × B35) (WF9 × N6)	3DE
Ohio M15	(Oh26 × Oh51) (A × W23)	2DE
Ohio K24	(WF9 × Oh51A) (Oh33 × Oh40B)	2CDE
Ohio 4808	(Oh4C × Oh51A) (Oh28 × Oh45)	4DE
Ohio 4915	(M14 × 187-2) (WF9 × Oh43)	3DE
U.S. 13	(Hy × L317) (WF9 × 38-11)	3ABCDE, 4ABCDE, 5ABCDE
Miscellaneous		
Yellow O. P. Synthetic		4E

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